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March 1965

PHOTOGRAPHIC INTERPRETATION REPORT

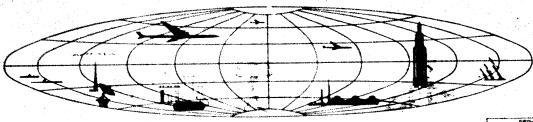
WEAPONS TEST CELLS IN THE USSR, CHINA, EGYPT, AND AUSTRIA

Declass Review by NIMA/DOD





NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



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WEAPONS TEST CELLS IN THE USSR, CHINA, EGYPT, AND AUSTRIA

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INTRODUCTION

Eight inusual configurations, identified as weapons test cells, have been observed to date at 6 sites in the USSR, China, Egypt, and Austria. In the USSR the test cells were observed near Chapayevsk, Pavlograd, and Volsk; in China, near Pai-cheng; in Egypt, near Cairo; and in Austria, near Felixdorf (Figure 1). Five of the 6 sites have been associated directly or

Identification of the configurations as weapons test cells (formerly termed "baffle grids") is based on the following:
a) the fact that all of them are located in areas which also contain explosives/munitions plants (the test cells in China are actually a component of an extensive weapons/munitions test com-

FUNCTIONAL INTERPRETATION OF A WEAPONS TEST CELL

A weapons test cell is used to test model and actual munitions with respect to the distribution, range, and penetration of the fragments or contained missiles in various types of fragmentation or missile dispersion devices. The arcuate segments (Figure 2) of the weapons test cell are curved walls lined with, or consisting of, witness plates which record the distribution and/or penetration of missiles produced when the test device or munition is ex-

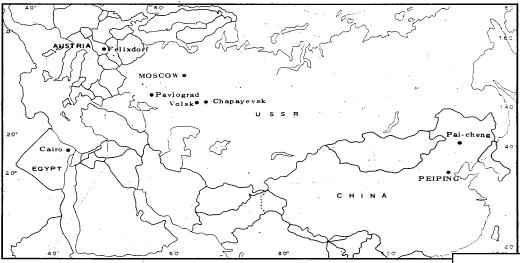


FIGURE 1. LOCATION MAP. Weapons test cells have been observed near the cities indicated in rel

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25X9 25X9

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analyzed for the effective munition criteria for thei cilities, although lection of a madetonation and in various forms of PHYSICAL CHARACTERICELLS The physical ons test cell observed the physical characterics of physical characterics and the physical characterics of physical characterics.	characteristics of each weaperved in the USSR, China, and ed in Figures 2-7. A summary steristics is presented in Table ludes the angles of arc in the	been dismantled by 2.5 nautical miles (nm) city. Chapayevsk is the Explosives and Munition 309 and 15, Chapayevsk C	chapayevsk (Figure 2) Chapayevsk (Figure 2) by hut had the facility was located east-northeast of the easte of Chapayevsk is Loading Combines nemical Plant 102, and figure 3) first seen on only, is located 6 nm and, which is also the plosives Plant. The eath northern end of area that may be an itest range.
	•	approximately 10 nm wes	
in the Soviet Uni	stest cells have been observed on, 1 each near Chapayevsk	In a	ddition to numerous
25X1D			
. ##		ARCU	ATE SEGMENT
, [50 0 FEET (APP	50 100 ROXIMATE)
FIGURE 2. WEAPO	NS TEST CELL OBSERVED NEAR CHAPA		rs disman riea by
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	19. 92 9. 22.
•	25X9 25X9
* 25X9	grids, test ranges, explosives storage facilities, and other components, the
25X1D	plant. The weapons test cell was first observed on photography of This facility differs from the others described in this report in that 3 of the 5 arcuate segments apparently have rectangular openings of various sizes which may represent doors and windows. Any or all of these openings would probably be covered by witness plates during a test. Weapons Test Cells in China Three weapons test cells (Figures 5 and 6) appear to be integral parts of the weapons/ munitions test facility at Pai-cheng (Tao-an), China. 5/ One test cell was present on photography of Two of the cells consist of 6 segments; the other cell has 5 segments.
25X9	A small, revetted control building is located between the pair of weapons test cells (Figure 5). This building was present in At that time, a similar pair of test cells was located approximately 2 nm to the east-northeast; these test cells have since been moved or abandoned.
	EST CELL HO 3
25X9	
	FIGURE 6. WEAPONS TEST CELL NEAR PAI-CHENG, CHINA 25X1D
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25X9	25X9
	which is diametrically opposed, whereas each of the test cells in the USSR and China consists of 5 or 6 segments.
Weapons Test Cell in Egypt The weapons test cell in Egypt (Figure 7) is located within the secured area of Plant 81	
(Camp Huckstep Munitions Plant) which is approximately 11 nm northeast of Cairo. 6/ One segment of this facility was visible	Weapons Test Cell in Austria
on photography. Low oblique photography of showed some or all of the segments lying flat on the ground; the complete facility with the segments erected was visible on photography of The Egyptian facility differs from those in the USSR and China in that it consists of only 4 segments, each pair of 25X1D 25X1D	Ground photography provides an additional example of a weapons test cell located in Felixdorf, Austria. This facility was designed to test plastic hand grenades and the walls of witness plates are located at distances of 2, 3 and 5 meters from the point of detonation Figure 8 is a view of part of the test cell
1D	Possiel E PACOMICS
FIGURE 7. WEAPONS TEST CELL	NEAR CAIRO, EGYPT,
	25X1D

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FIGURE 8. VIEW OF PART OF WEAPONS TEST CELL NEAR FELIXDORF, AUSTRIA

25X1D

Table 1. Physical Characteristics of Weapons Test Cells in the USSR, China, and Egypt

25X1D 25X1D 25X1D

25X1D

Number Length of Radii* Height of Angles of Arcs** 25X1D Location Walls (segments)
(ft) of Segments (ft) (degrees) Chapayevsk, USSR 6 Pavlograd, USSR Volsk, USSR 60, 60, 60, 60, 70 Pai-cheng, China (Test Cell No 1) Pai-cheng, China (Test Cell No 2) 55, 65, 55, 60, 60, 65 Pai-cheng, China (Test Cell No 3) Cairo, Egypt

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^{*}The radii were measured to the center of the arcs, beginning with the arc closest to center of the circle, then

^{**}The hand were measured to the center of the arcs, beginning with the arc closest to center of the circle, next closest, etc.

**The angle of arc is that angle formed by two radii extended to the edges of the arc. The angles were measured, in order, from the innermost arc to the outermost.

***The heights given here are for the inner wall, the next 2 inner walls, and the outer wall, respectively.

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MAPS OR CHARTS	9			and (CDCDDD)		
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3.						
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6. NPIC.	Camp Huckstep Muniti	The state of the s	· · · · · ·	65 (TOP SECRE	<u> </u>	* .
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